

AMENDMENTS TO THE CLAIMS

Claims 1-2. (Cancelled).

3. **(Currently Amended)** A method for obtaining bone cells comprising culturing (a) bone stem cell(s) ~~existing in~~ collected from a human amniotic mesenchymal cell layer in a bone cell-differentiation medium.

4 **(Currently Amended)** A method for osteogenesis comprising transplanting bone stem cells ~~existing in~~ collected from a human amniotic mesenchymal cell layer into (a) bone defect(s).

5. (Cancelled).

6. **(New)** A method for obtaining bone cells comprising,
collecting cells from a mesenchymal cell layer of human amnion,
separating cells expressing antigen SB-10 from the collected cells, and
culturing the cells expressing antigen SB-10 in a bone cell-differentiation medium,
thereby producing bone cells, wherein the bone cells do not express antigen SB-10.

7. **(New)** The method of claim 6, wherein the separating step is carried out using a monoclonal antibody to SB-10 in a flow cytometry system.

8. **(New)** The method of claim 6, wherein the bone cells further express alkaline phosphatase.
9. **(New)** A method for osteogenesis comprising, transplanting bone cells produced by the method of claim 6 into a bone defect.
10. **(New)** A method for osteogenesis comprising,
collecting cells from a mesenchymal cell layer of human amnion, and
transplanting the collected cells into a bone defect, wherein the collected cells
comprise stem cells and other amniotic cell types.
11. **(New)** The method of claim 10, wherein at least some of the collected cells express
antigen SB-10.
12. **(New)** A method for osteogenesis comprising,
collecting cells from a mesenchymal cell layer of human amnion,
separating cells expressing antigen SB-10 from the collected cells, and
transplanting the separated cells into a bone defect.